TOUCAT "6T092601"

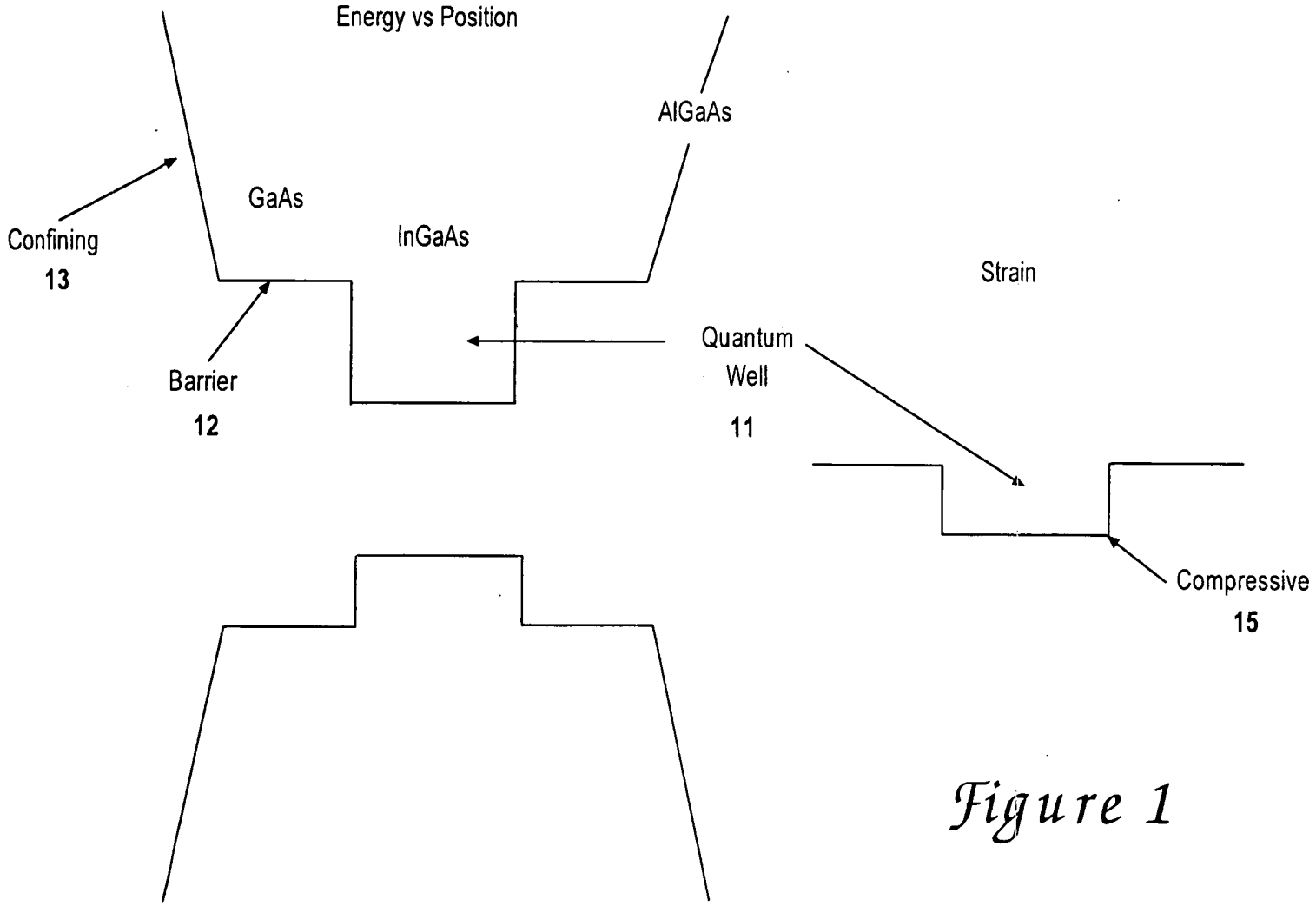


Figure 1

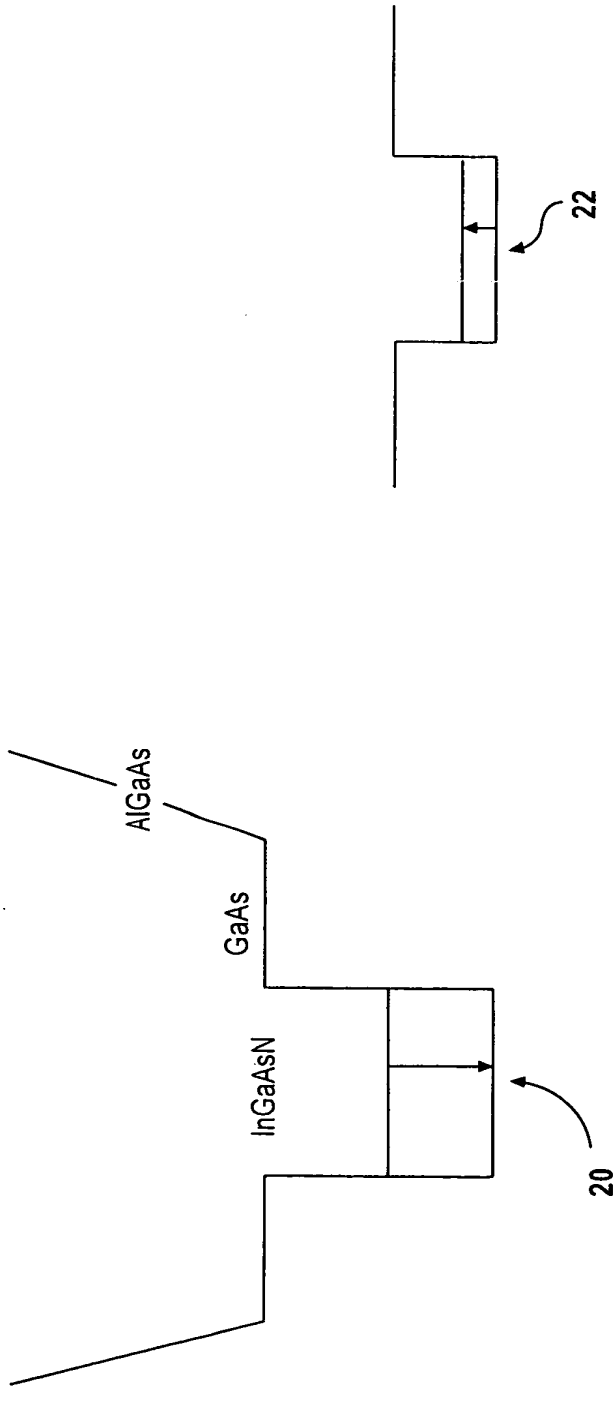


Figure 2

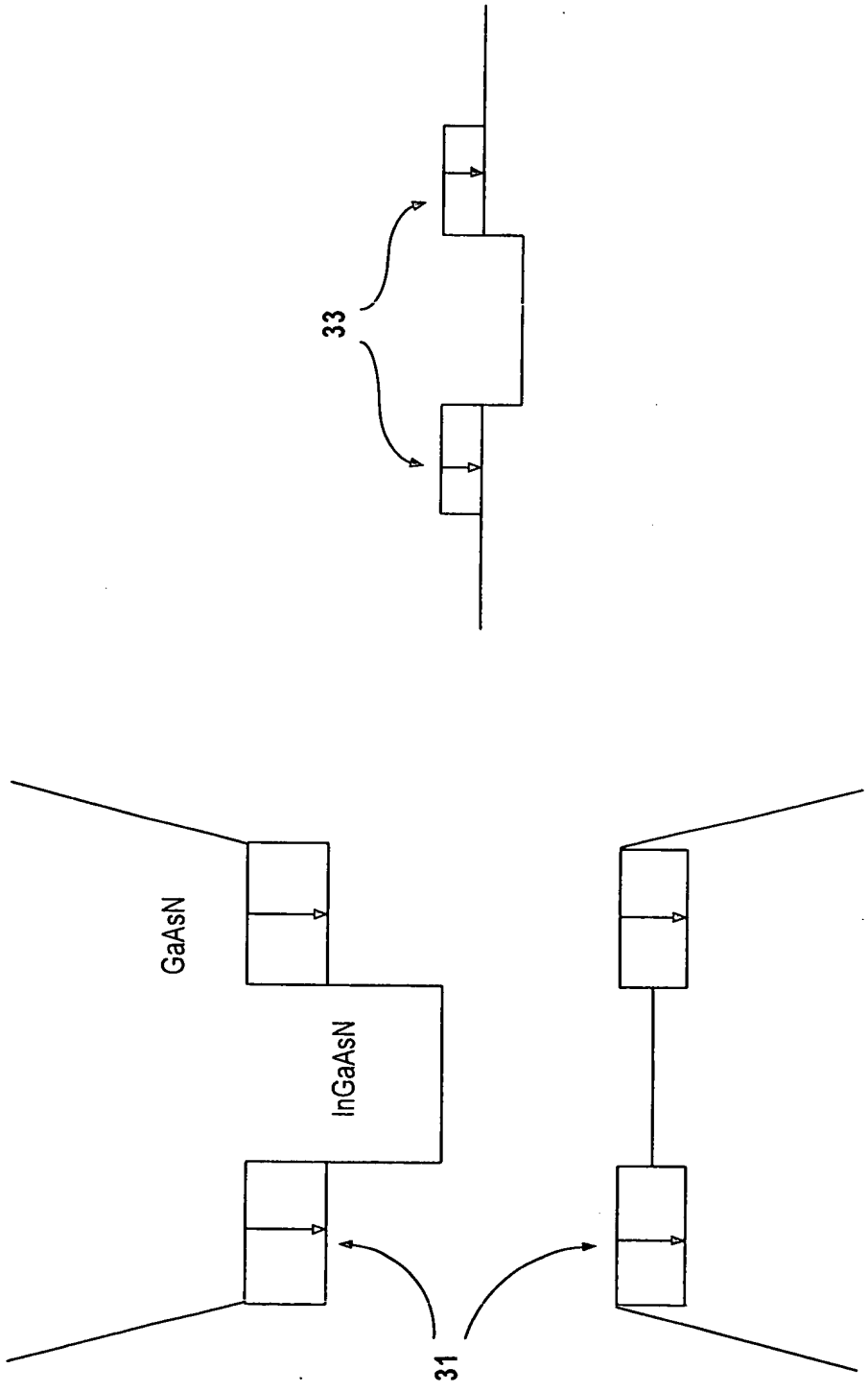
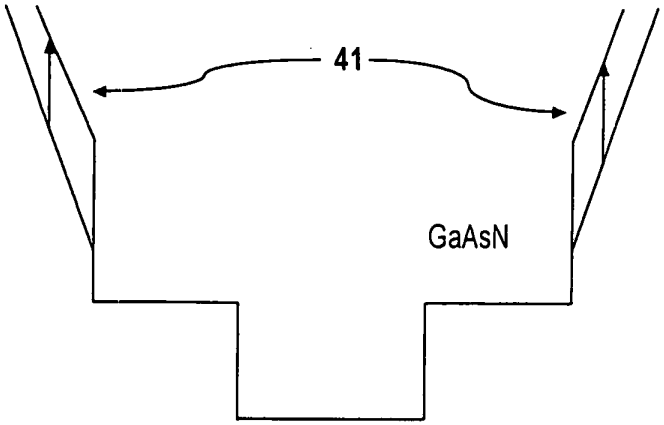


Figure 3



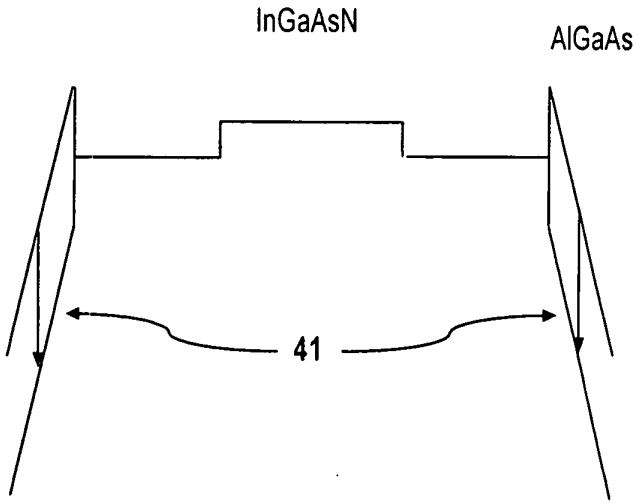
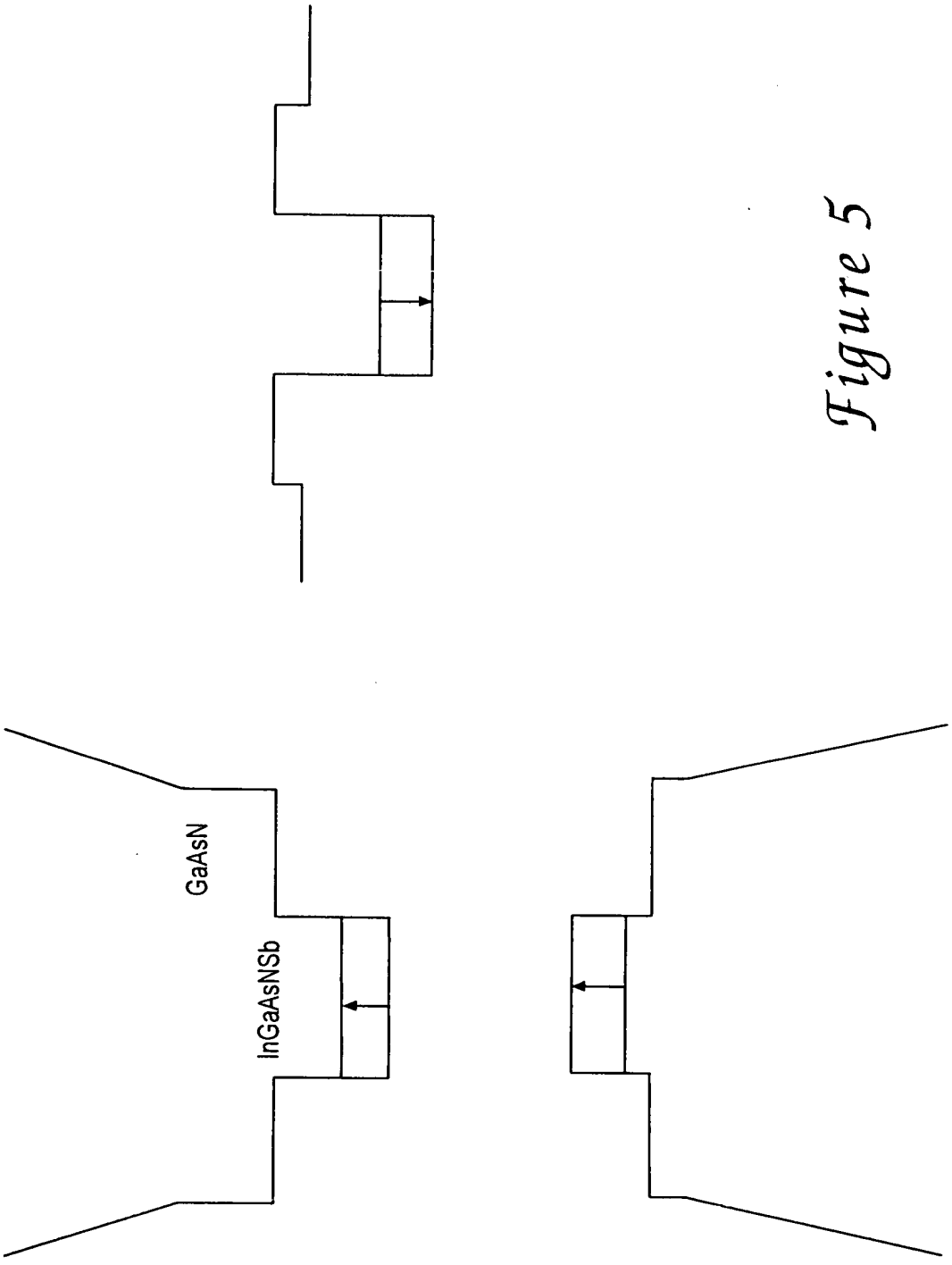


Figure 4



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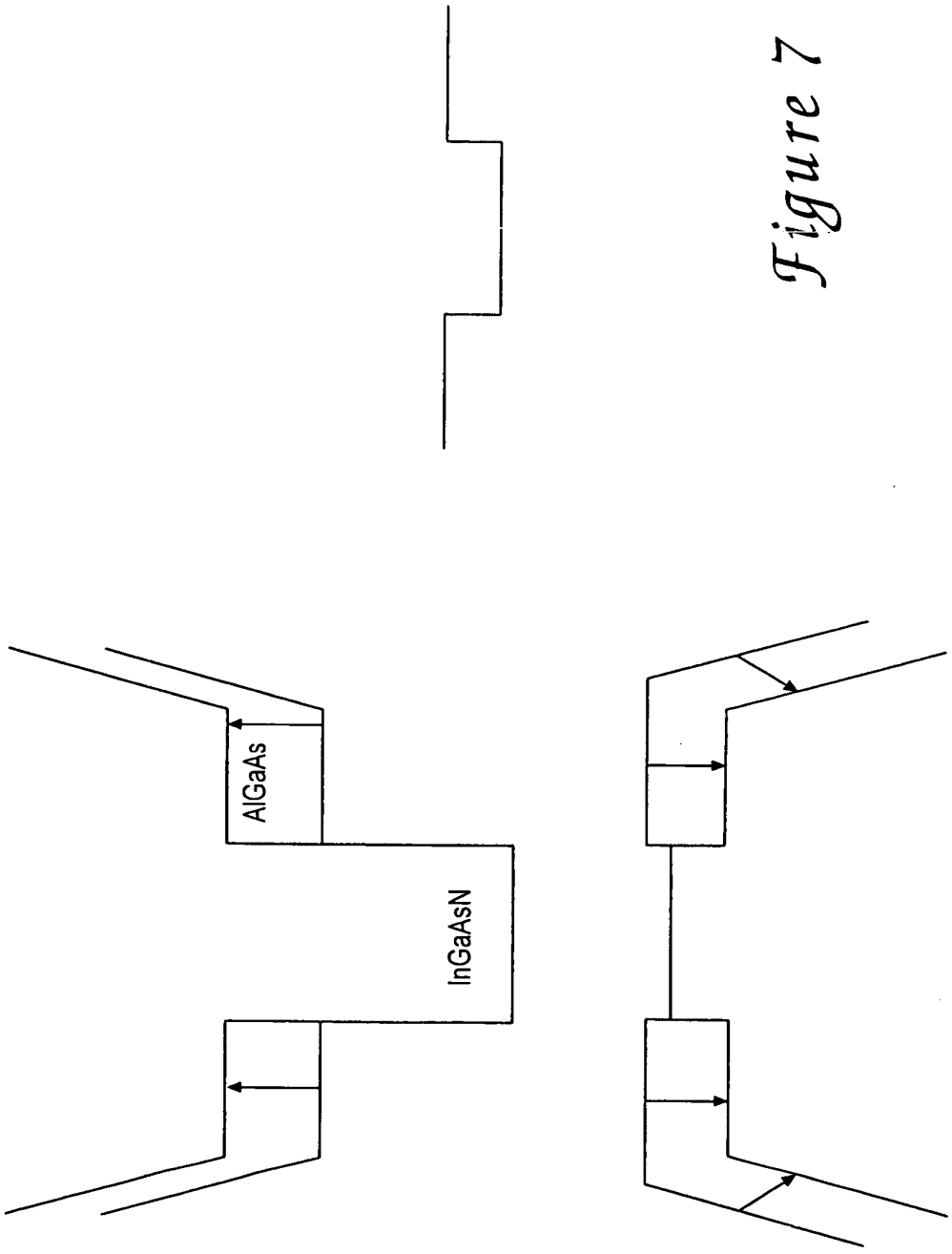


Figure 7

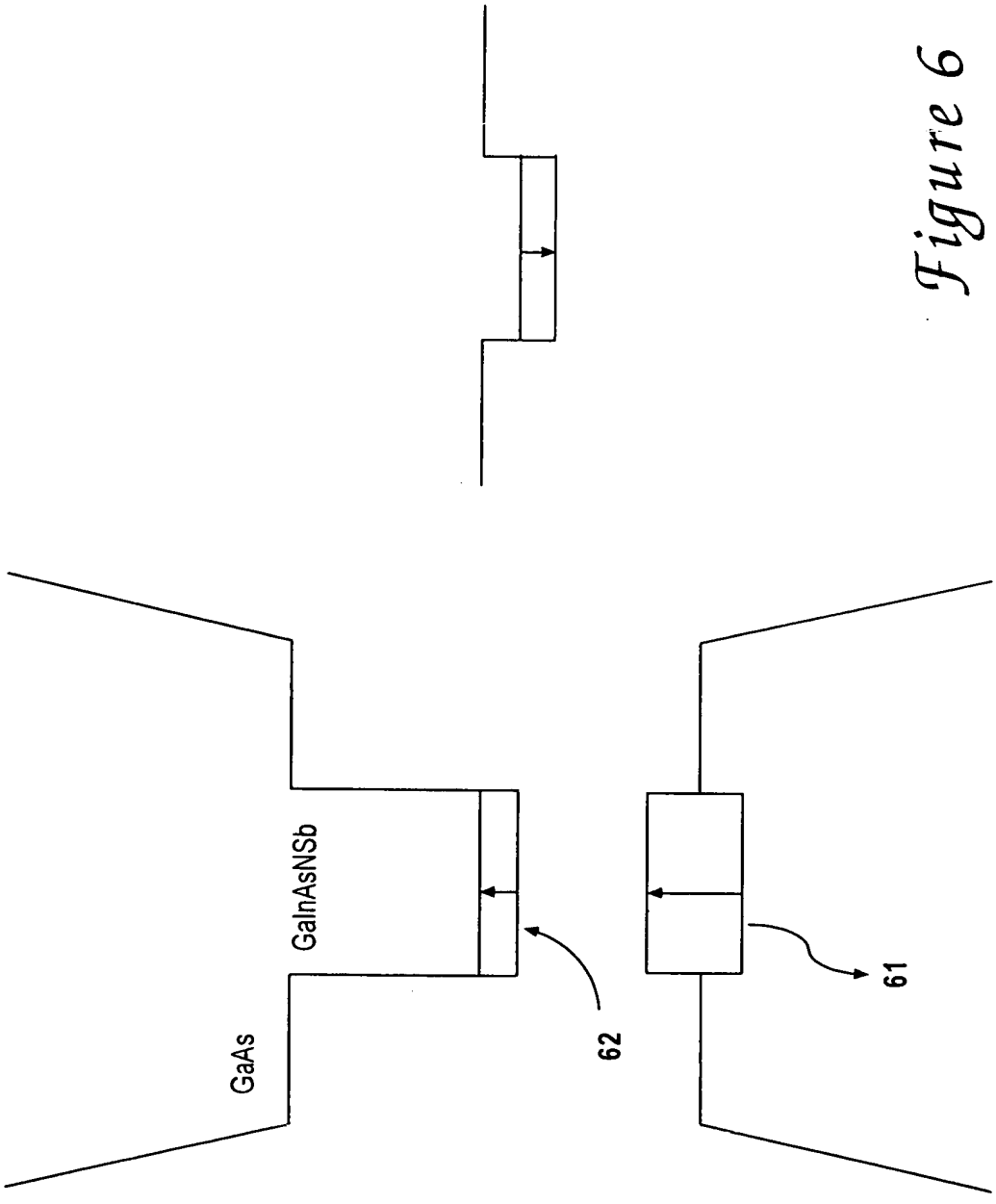
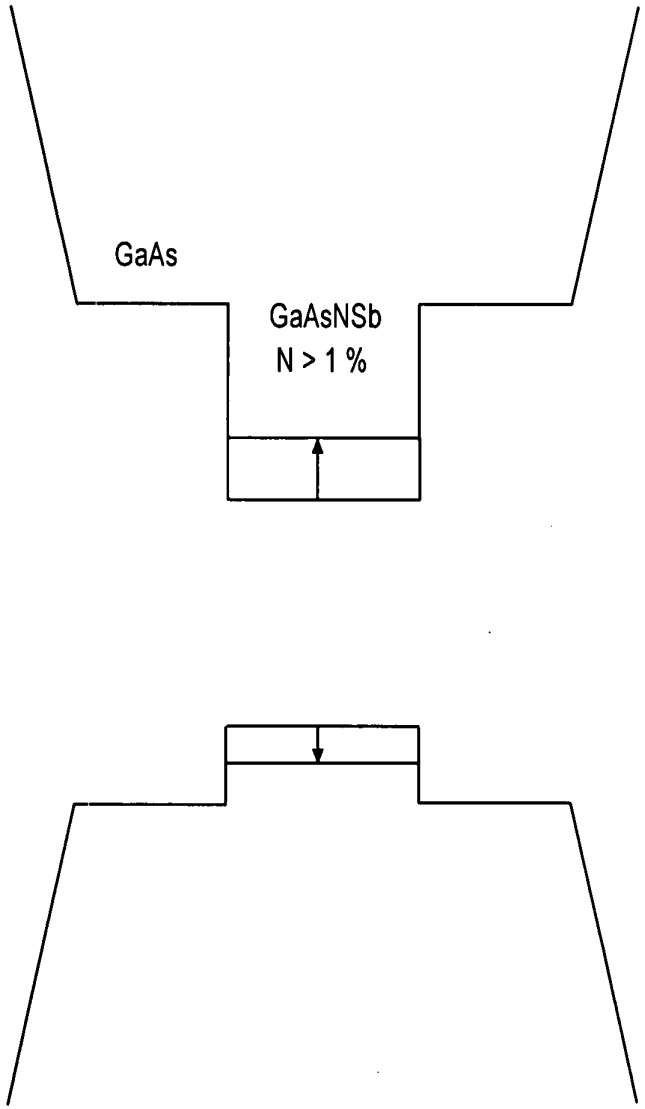


Figure 6



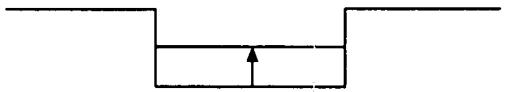


Figure 8

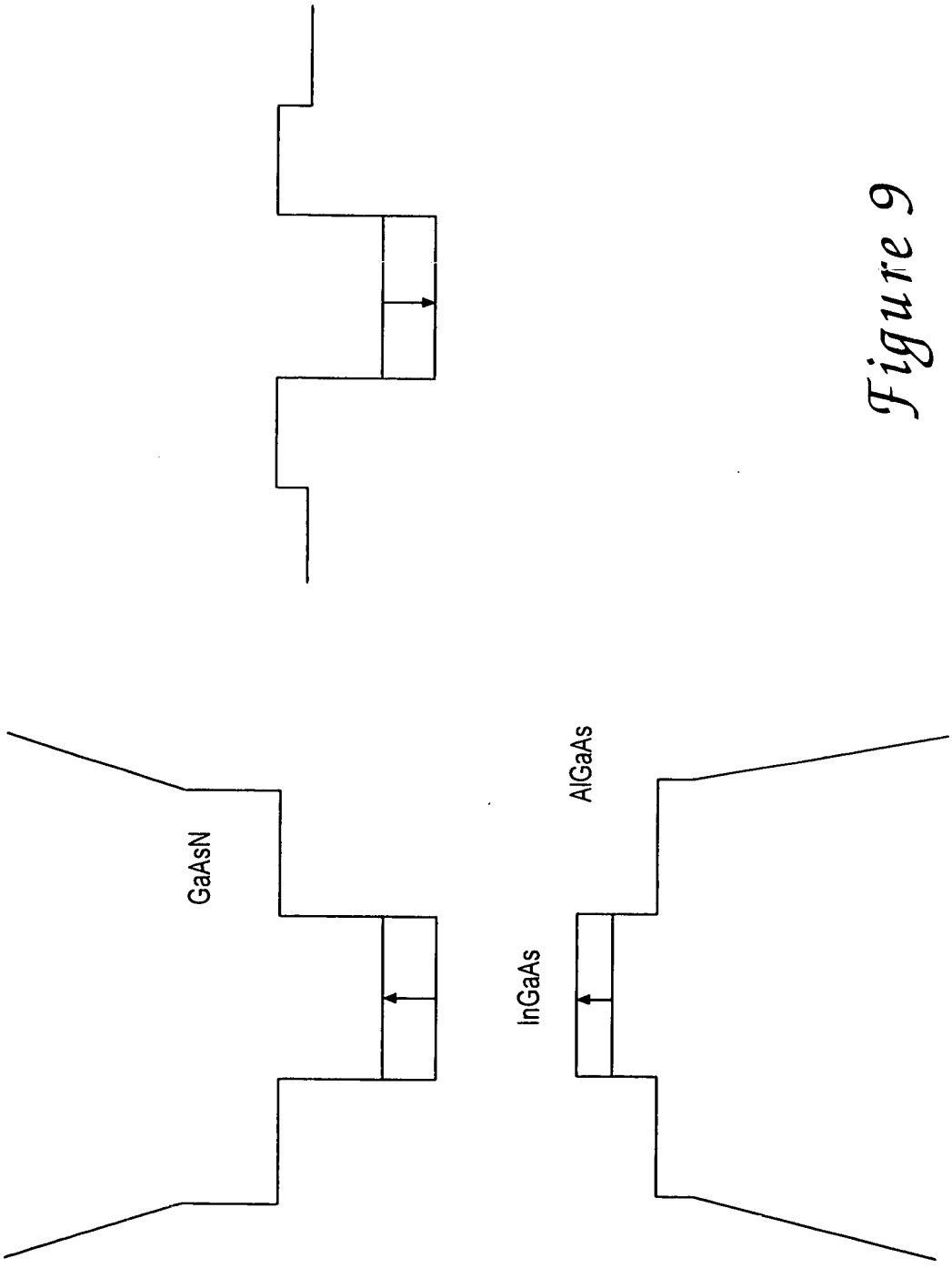


Figure 9

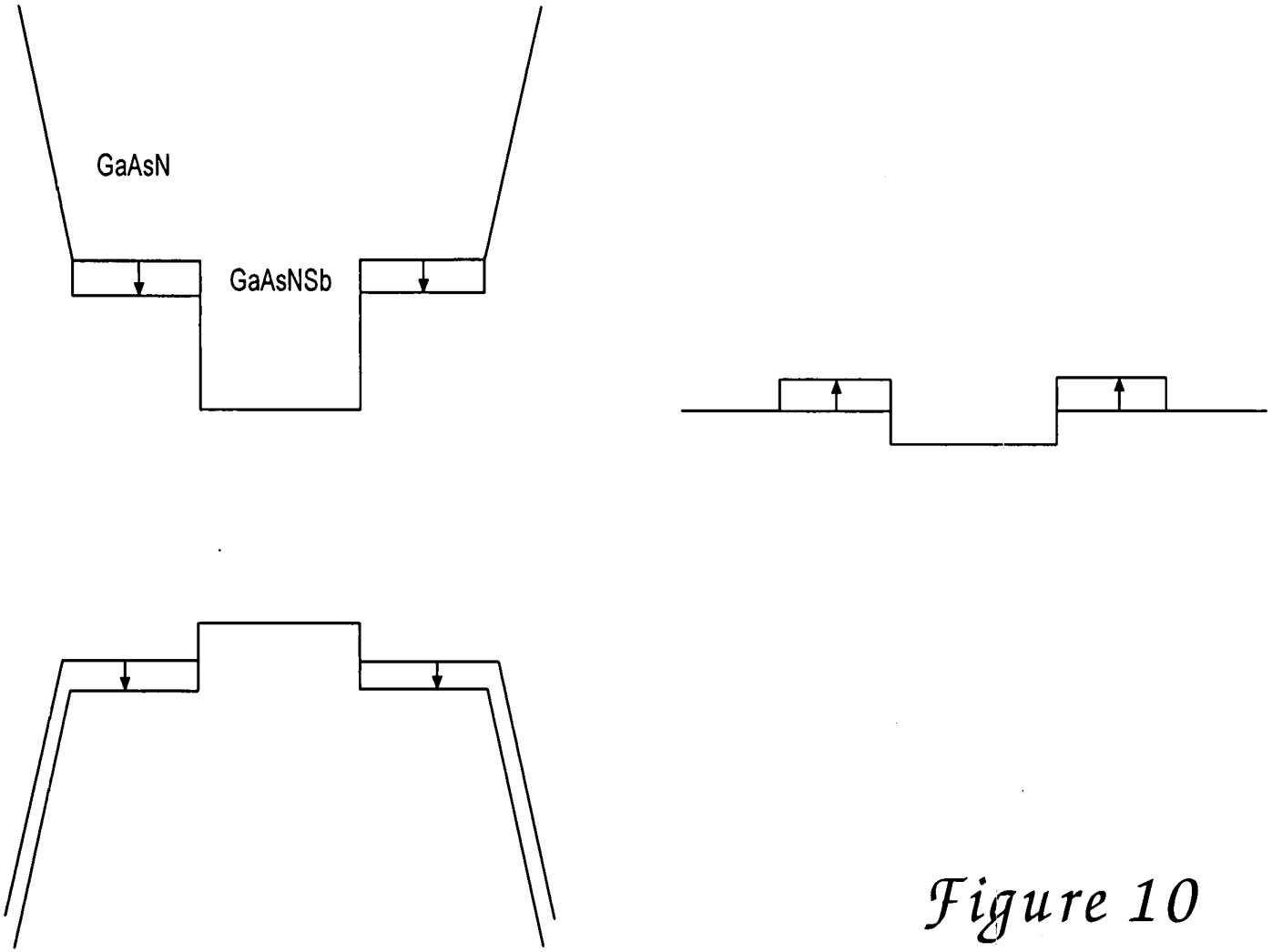


Figure 10

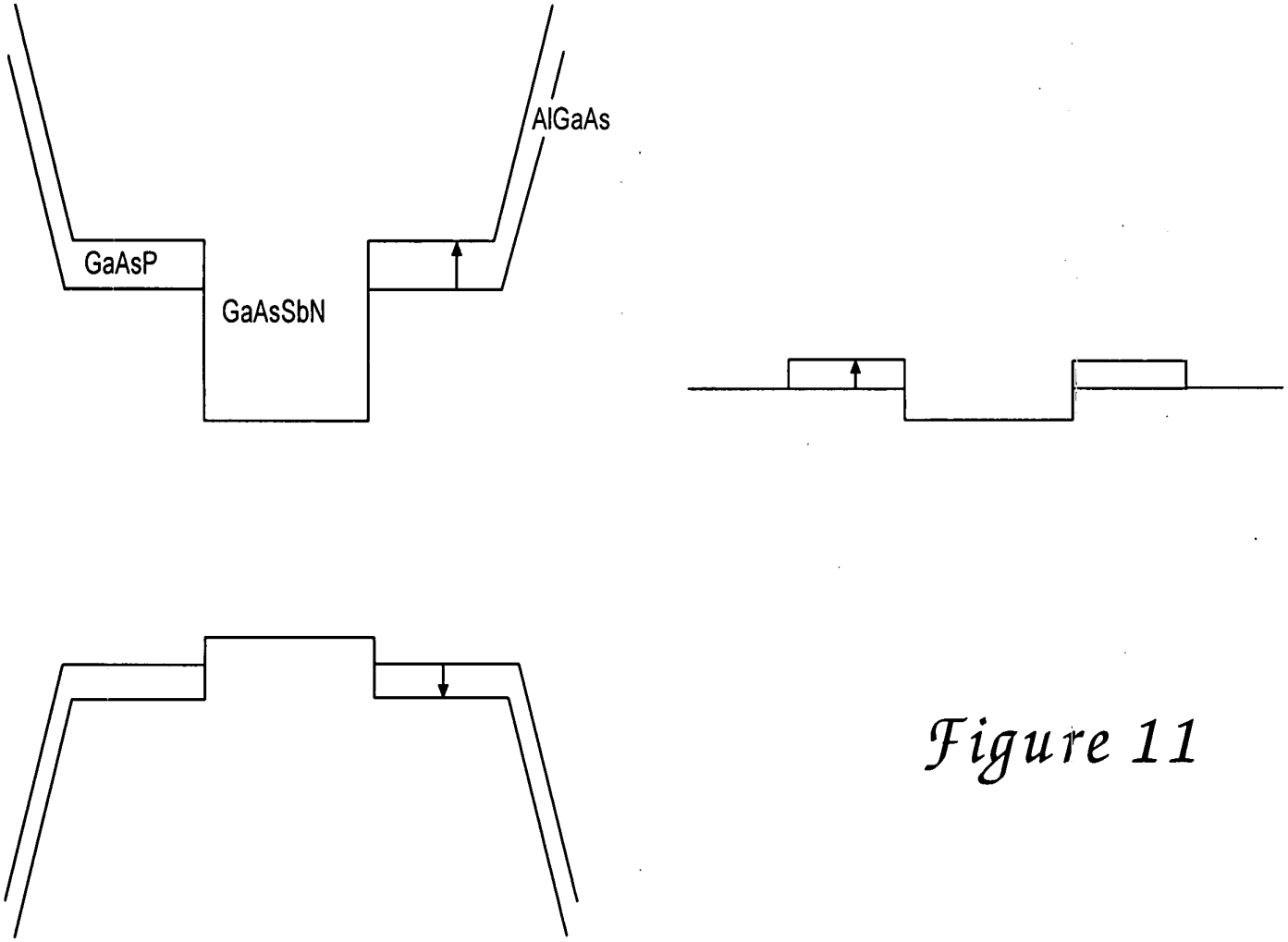


Figure 11

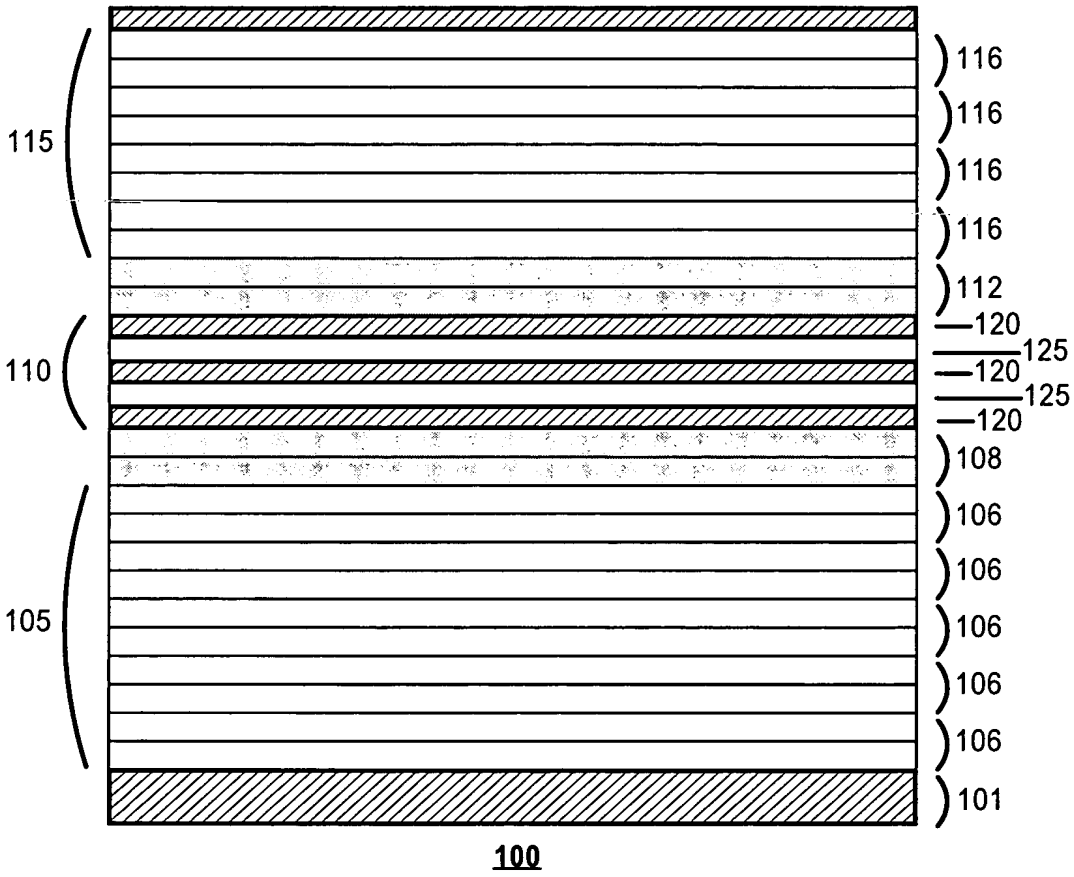
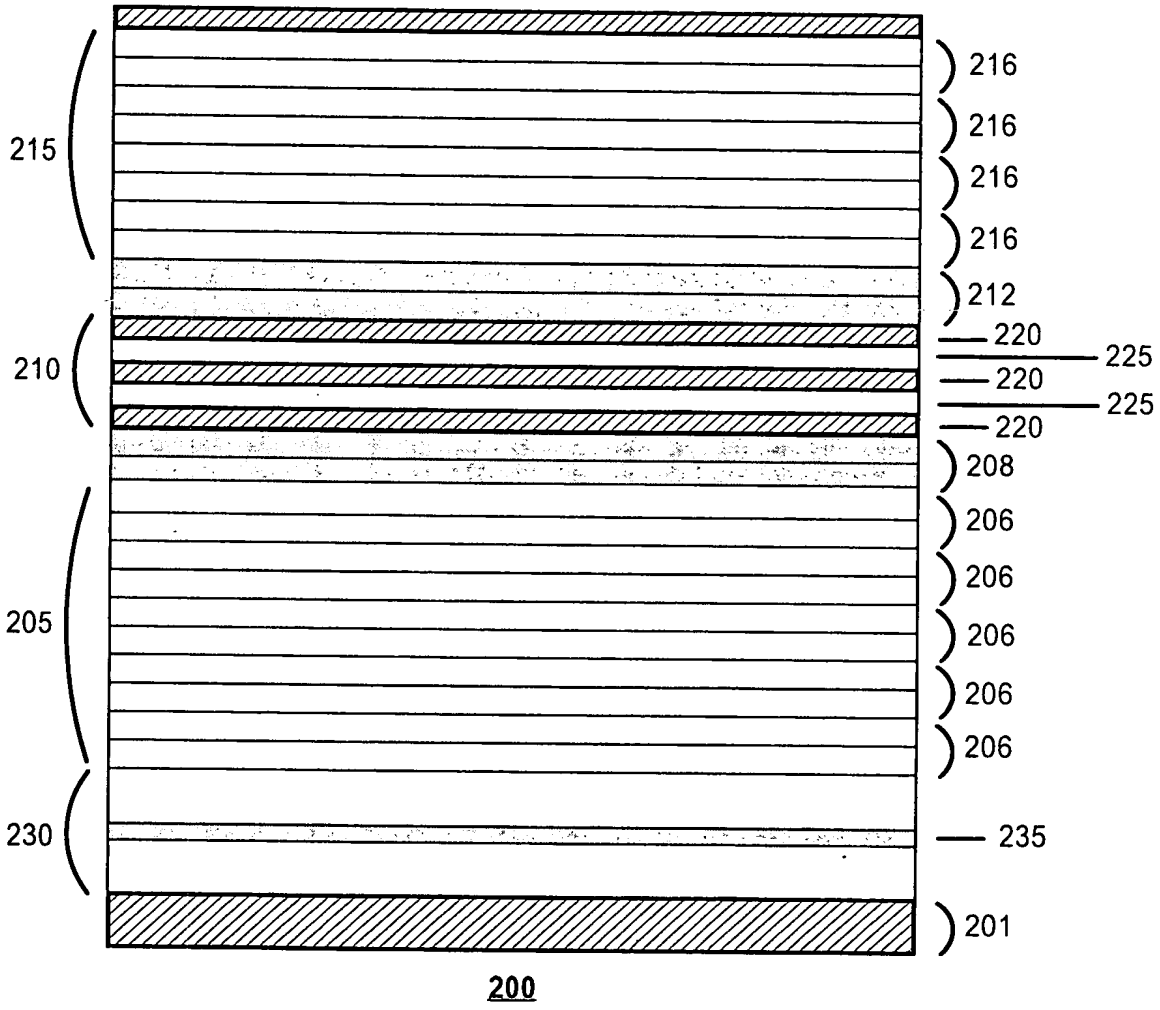

115
110
105
116
116
116
116
112
120
125
120
125
120
108
106
106
106
106
106
101
100

Figure 12


215
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205
230
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225
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225
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208
206
206
206
206
206
235
201
200

Figure 13

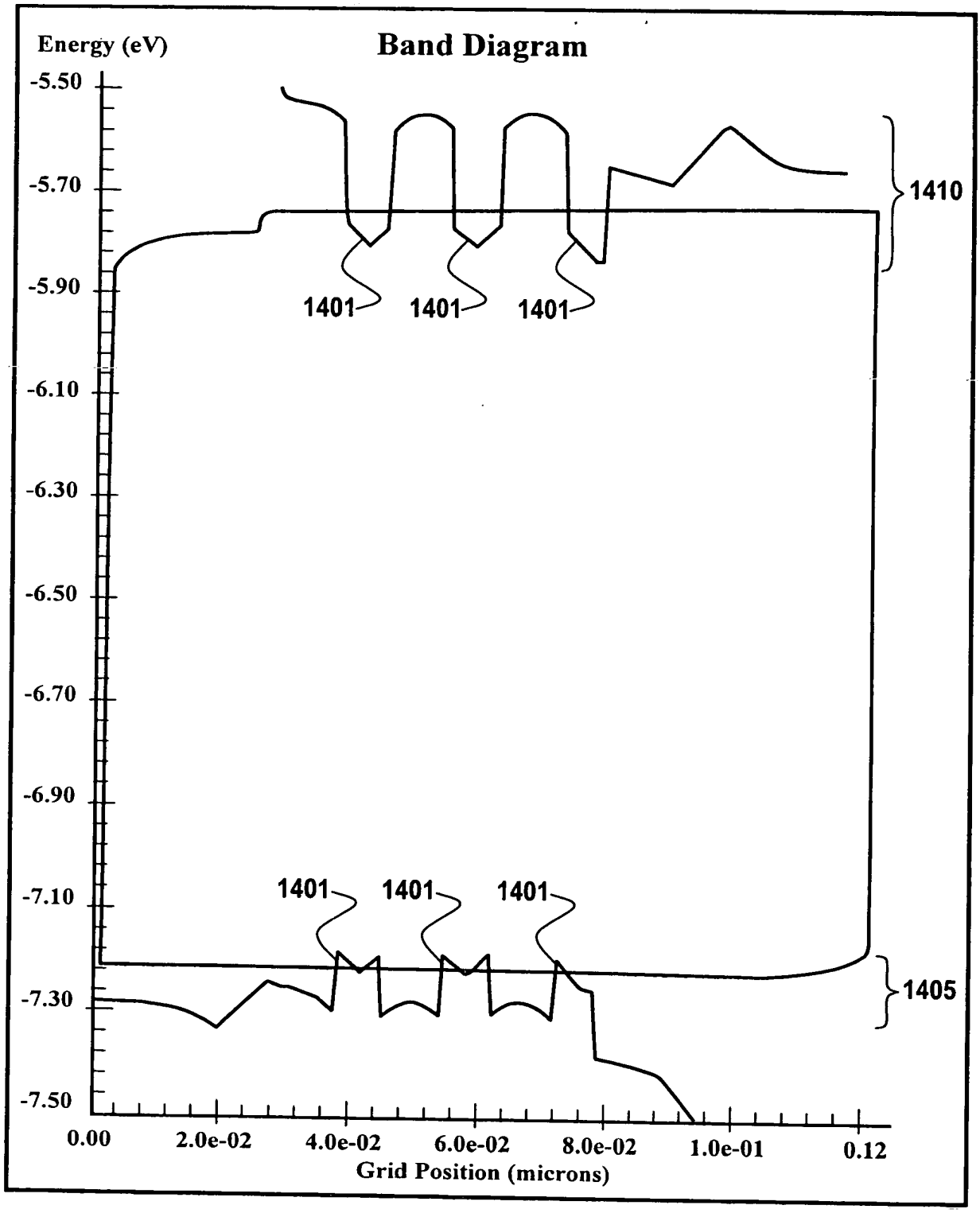
Energy (eV)
Band Diagram
-5.50
-5.70
-5.90
-6.10
-6.30
-6.50
-6.70
-6.90
-7.10
-7.30
-7.50
1401
1401
1401
1410
1401
1401
1401
1405
0.00
2.0e-02
4.0e-02
6.0e-02
8.0e-02
1.0e-01
0.12
Grid Position (microns)

Figure 14

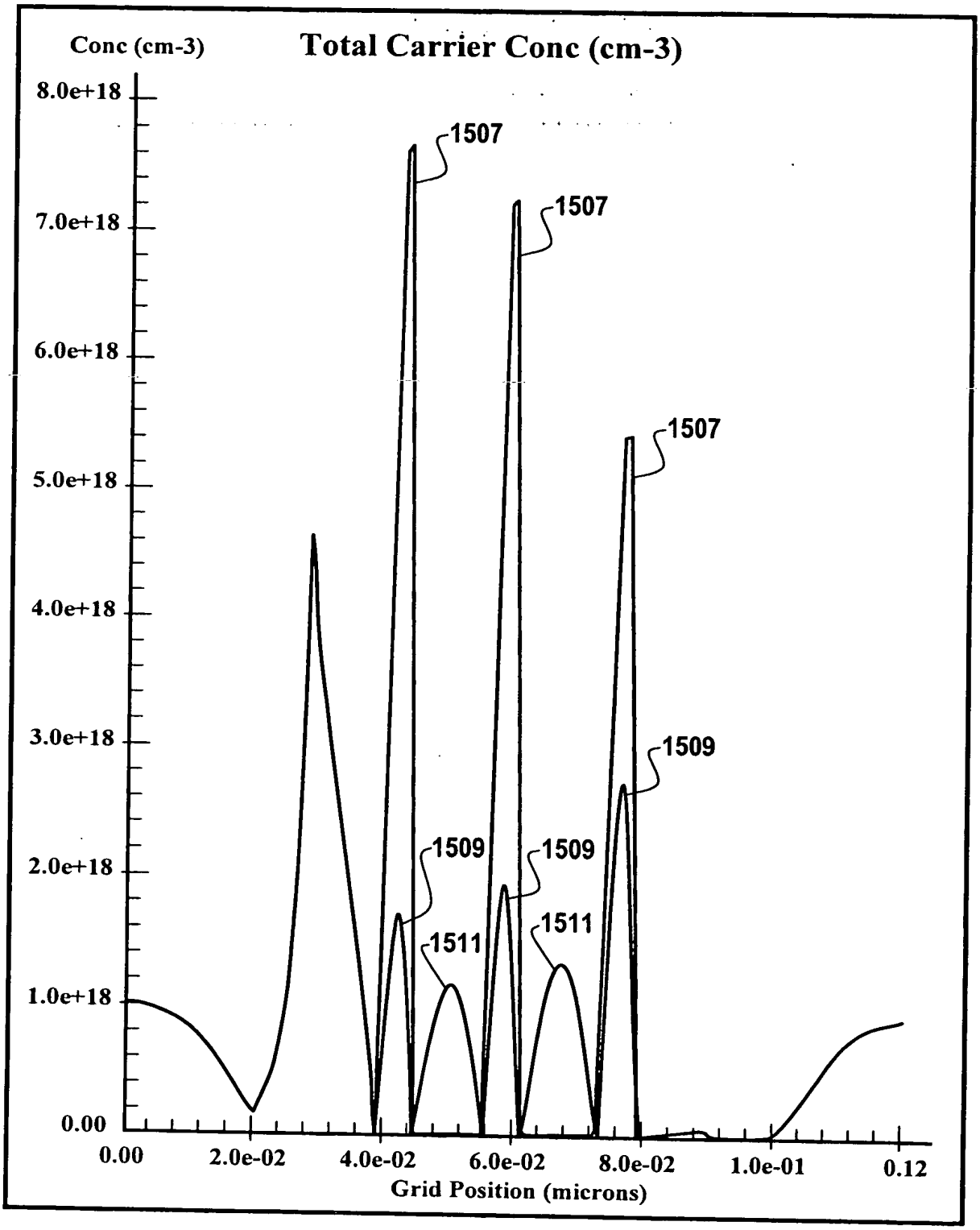
Conc (cm-3)
Total Carrier Conc (cm-3)
8.0e+18
7.0e+18
6.0e+18
5.0e+18
4.0e+18
3.0e+18
2.0e+18
1.0e+18
0.00
1507
1507
1507
1509
1509
1509
1511
1511
0.00
2.0e-02
4.0e-02
6.0e-02
8.0e-02
1.0e-01
0.12
Grid Position (microns)

Figure 15

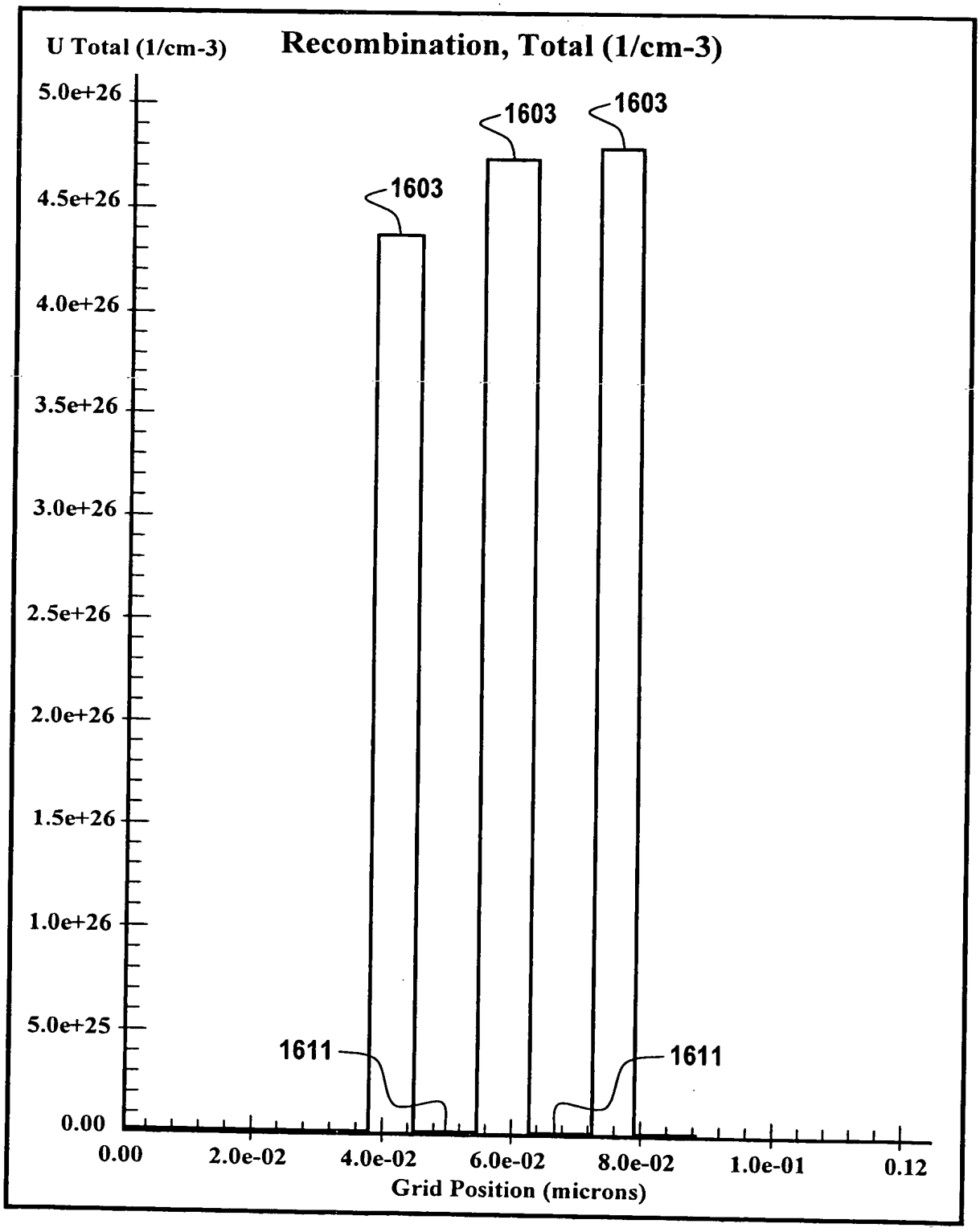
U Total (1/cm-3)
Recombination, Total (1/cm-3)
5.0e+26
4.5e+26
4.0e+26
3.5e+26
3.0e+26
2.5e+26
2.0e+26
1.5e+26
1.0e+26
5.0e+25
0.00
1603
1603
1603
1611
1611
0.00
2.0e-02
4.0e-02
6.0e-02
8.0e-02
1.0e-01
0.12
Grid Position (microns)

Figure 16

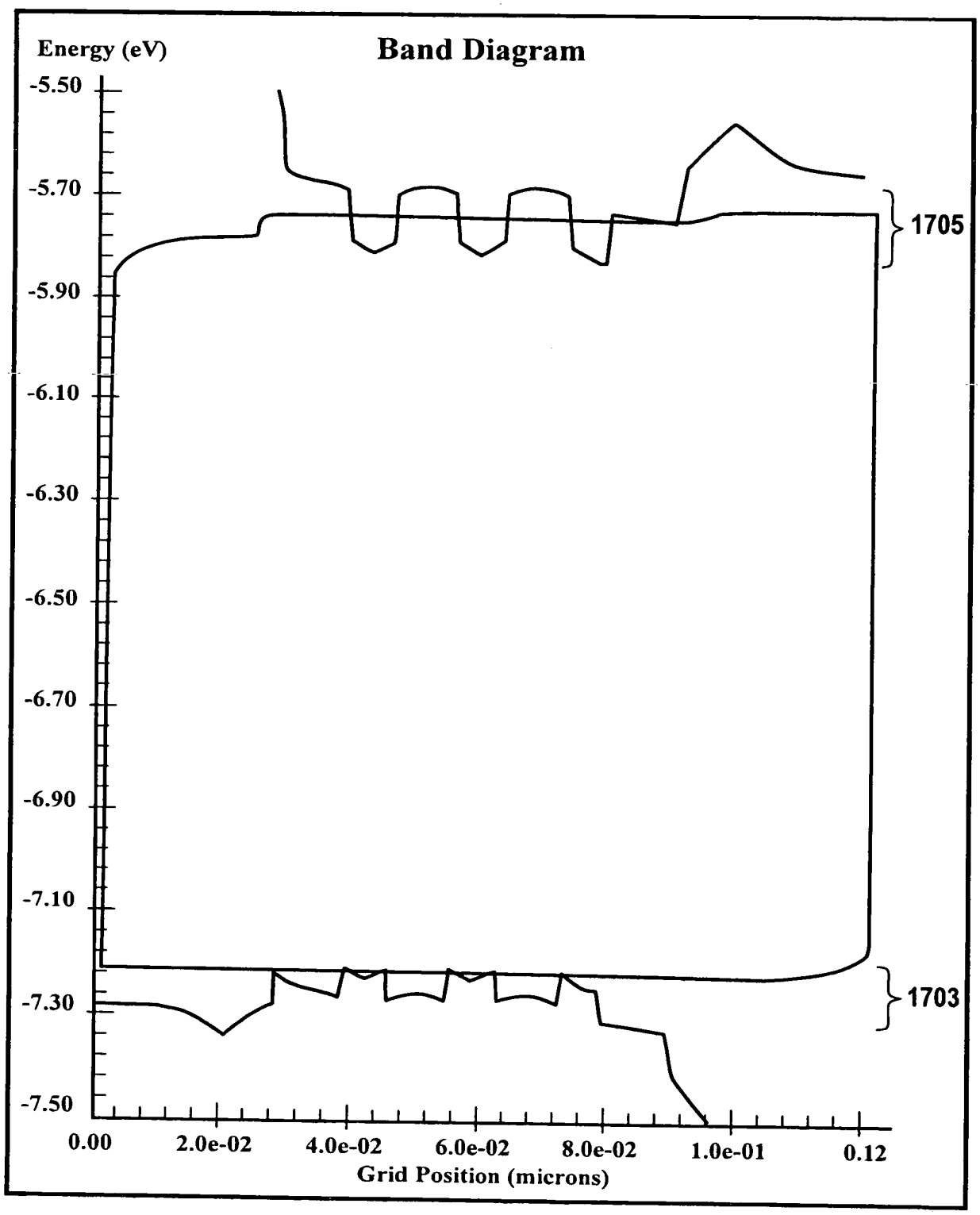
Energy (eV)
Band Diagram
-5.50
-5.70
-5.90
-6.10
-6.30
-6.50
-6.70
-6.90
-7.10
-7.30
-7.50
1705
1703
0.00
2.0e-02
4.0e-02
6.0e-02
8.0e-02
1.0e-01
0.12
Grid Position (microns)

Figure 17

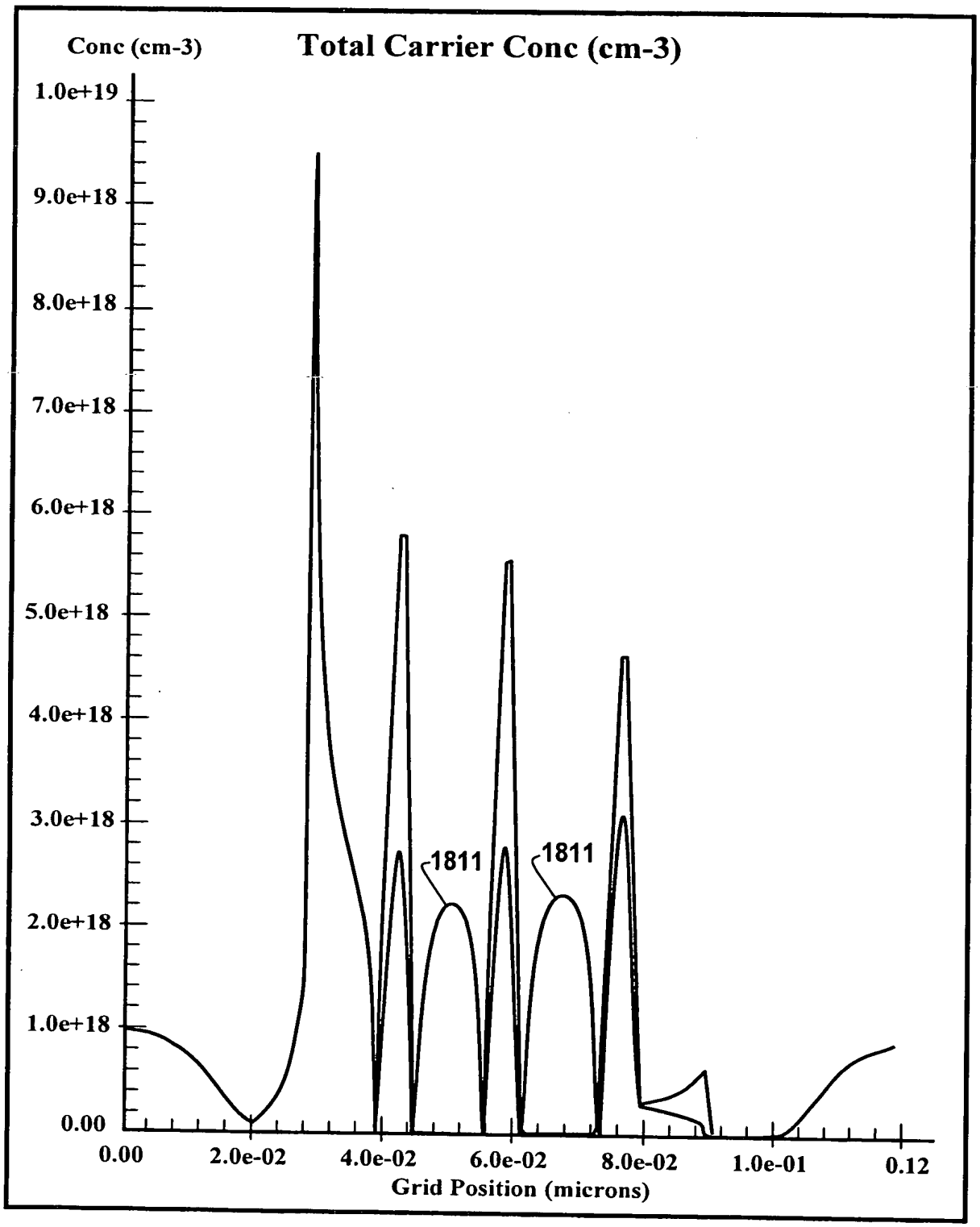
Conc (cm-3)
Total Carrier Conc (cm-3)
1.0e+19
9.0e+18
8.0e+18
7.0e+18
6.0e+18
5.0e+18
4.0e+18
3.0e+18
2.0e+18
1.0e+18
0.00
1811
1811
0.00
2.0e-02
4.0e-02
6.0e-02
8.0e-02
1.0e-01
0.12
Grid Position (microns)

Figure 18

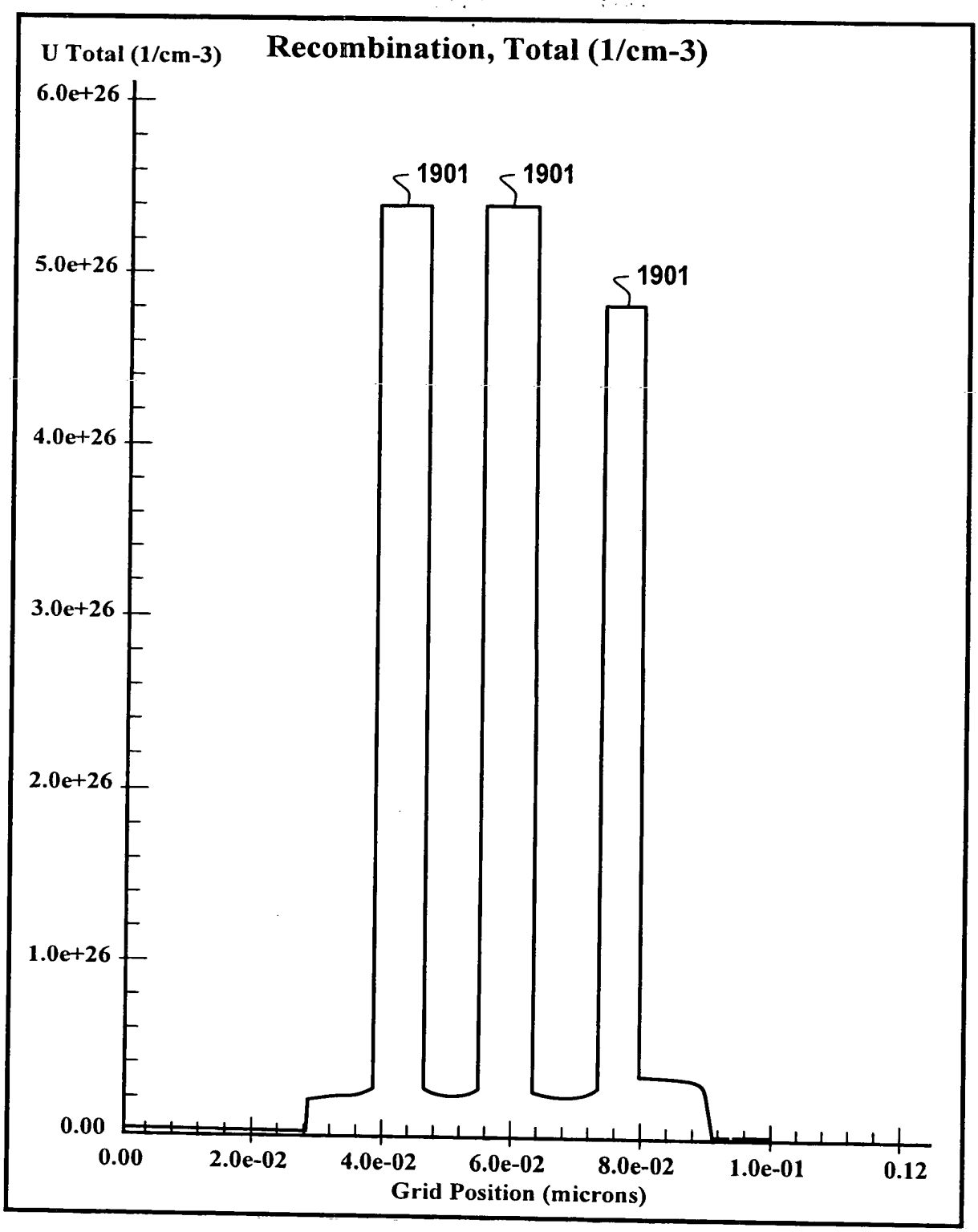
U Total (1/cm-3)
Recombination, Total (1/cm-3)
6.0e+26
5.0e+26
4.0e+26
3.0e+26
2.0e+26
1.0e+26
0.00
1901
1901
1901
0.00
2.0e-02
4.0e-02
6.0e-02
8.0e-02
1.0e-01
0.12
Grid Position (microns)

Figure 19

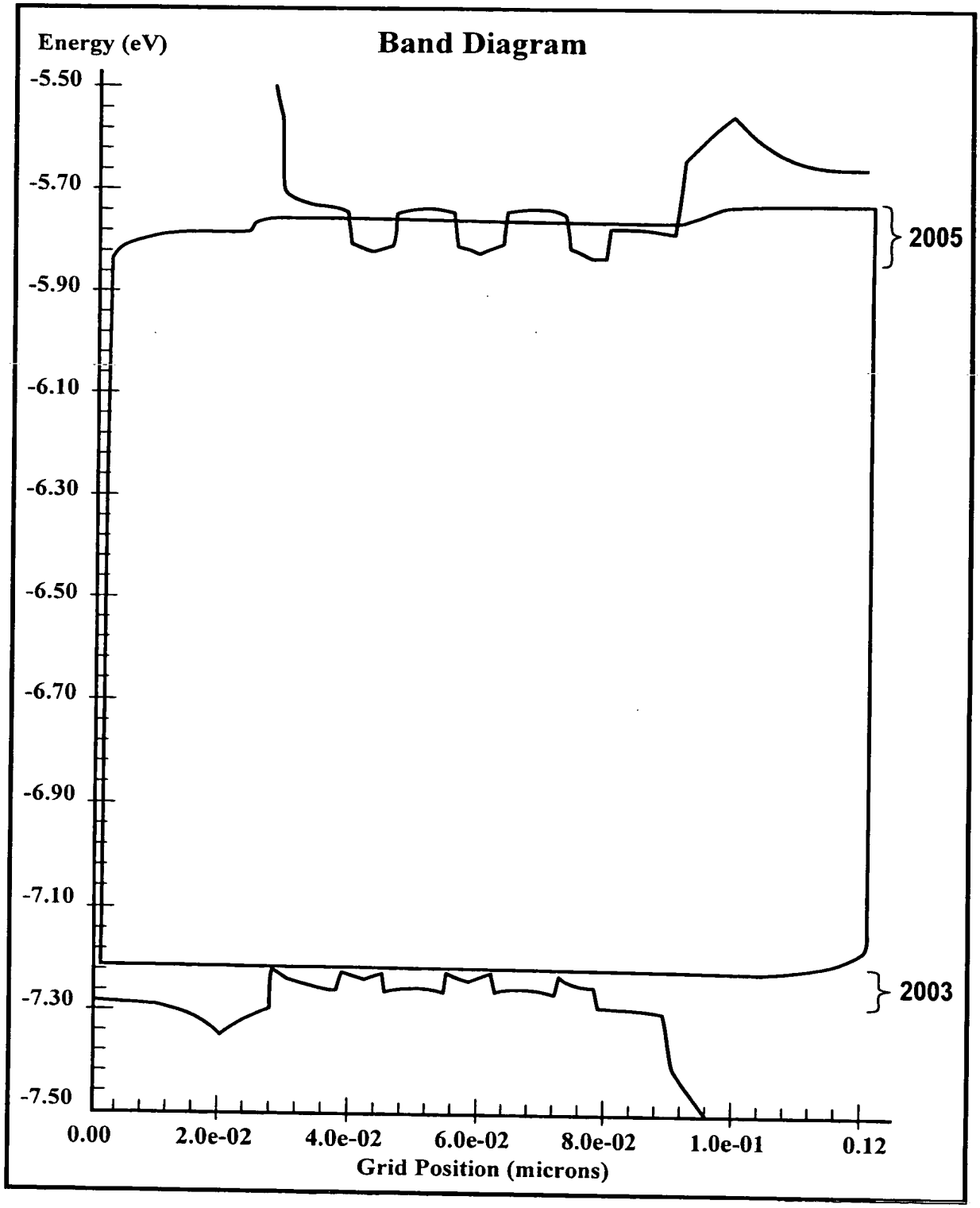
Energy (eV)
Band Diagram
-5.50
-5.70
-5.90
-6.10
-6.30
-6.50
-6.70
-6.90
-7.10
-7.30
-7.50
2005
2003
0.00
2.0e-02
4.0e-02
6.0e-02
8.0e-02
1.0e-01
0.12
Grid Position (microns)

Figure 20

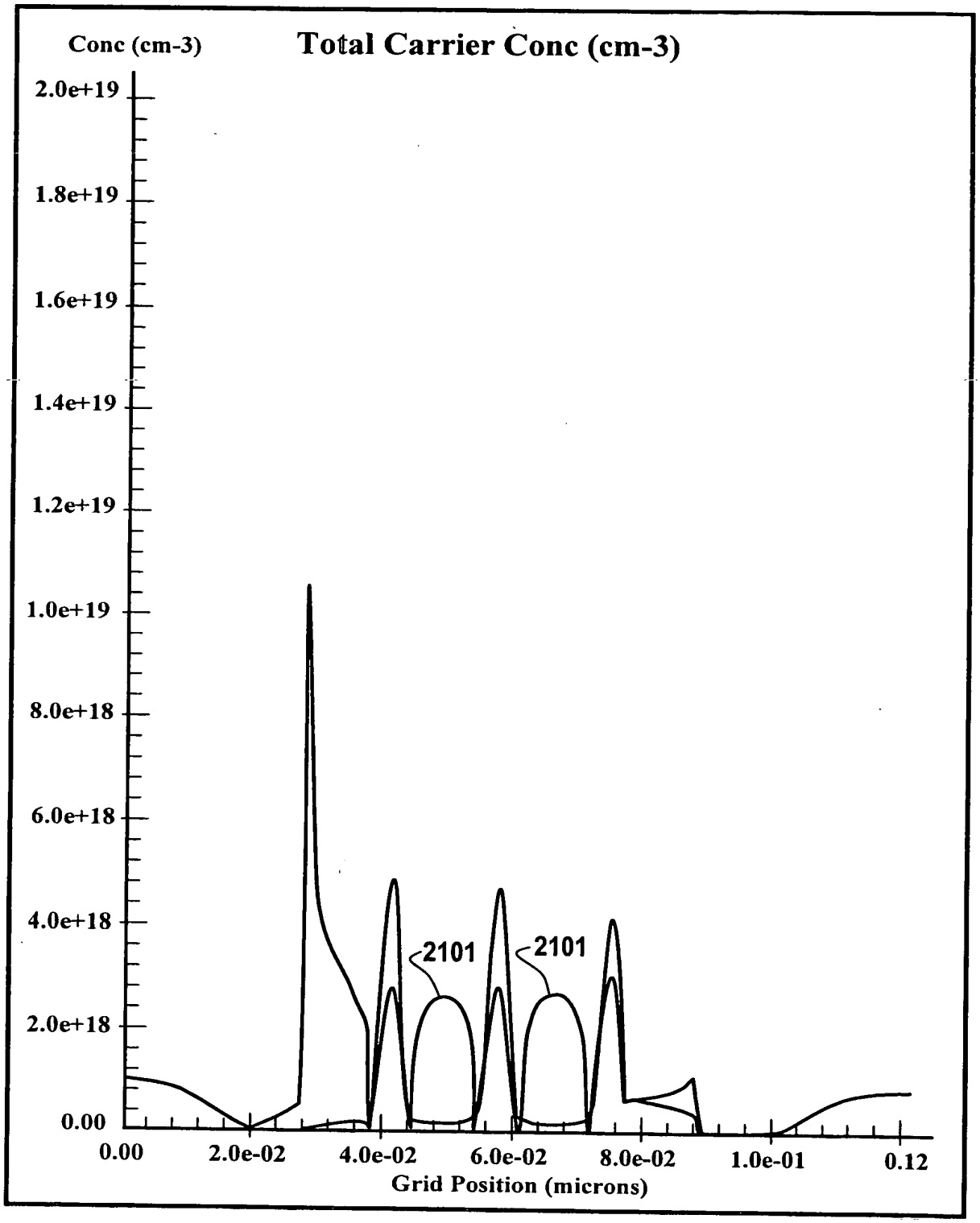
Conc (cm-3)
Total Carrier Conc (cm-3)
2.0e+19
1.8e+19
1.6e+19
1.4e+19
1.2e+19
1.0e+19
8.0e+18
6.0e+18
4.0e+18
2.0e+18
0.00
2101
2101
0.00
2.0e-02
4.0e-02
6.0e-02
8.0e-02
1.0e-01
0.12
Grid Position (microns)

Figure 21

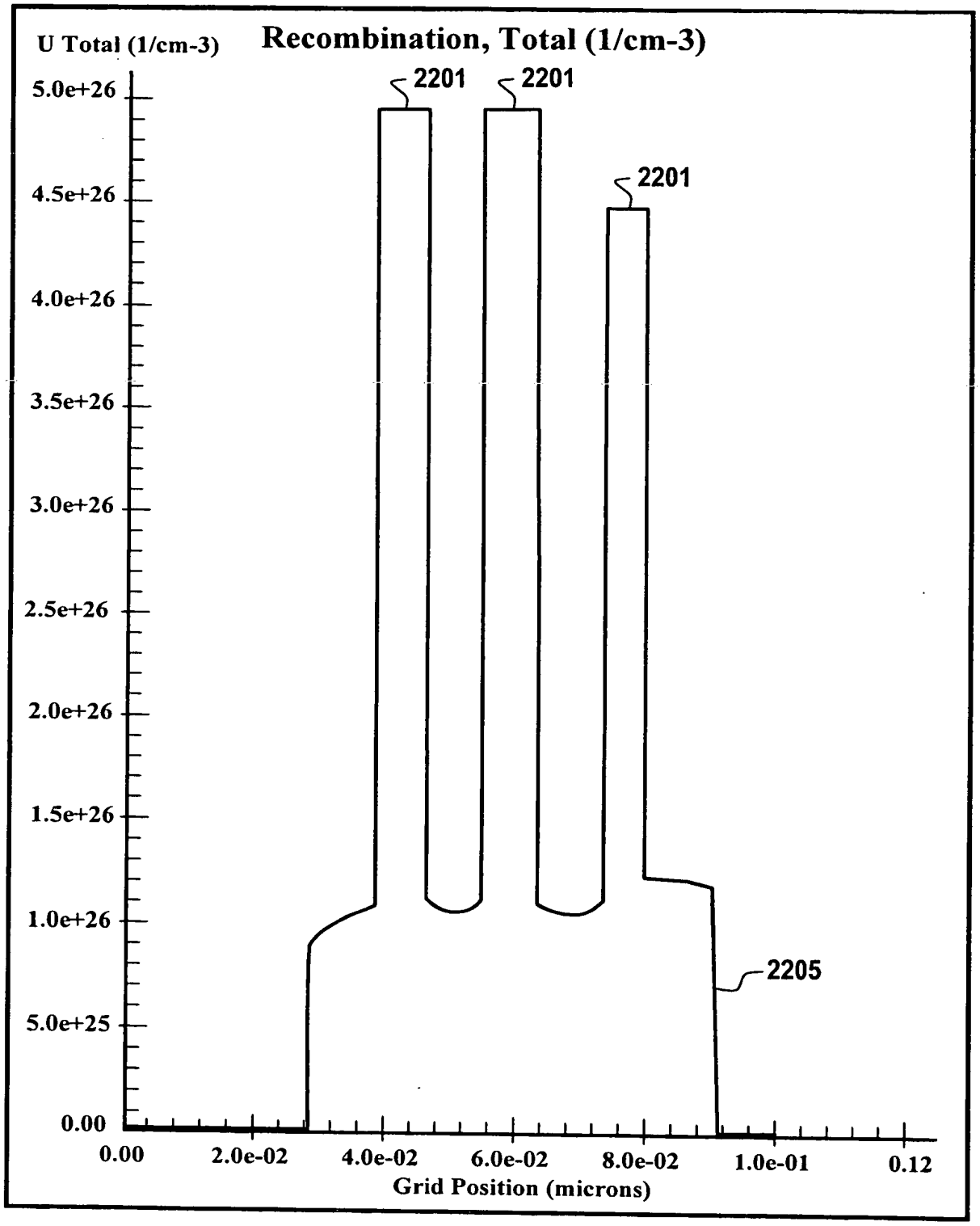
U Total (1/cm-3)
Recombination, Total (1/cm-3)
2201
2201
2201
2205
5.0e+26
4.5e+26
4.0e+26
3.5e+26
3.0e+26
2.5e+26
2.0e+26
1.5e+26
1.0e+26
5.0e+25
0.00
0.00
2.0e-02
4.0e-02
6.0e-02
8.0e-02
1.0e-01
0.12
Grid Position (microns)

Figure 22